

What is Claimed Is:

1. A method for manufacturing hollow ceramics fibers with the pores of the micron-scale hollow structure unidirectionally oriented, comprising the steps of:

dispersing organic fibers in a dielectric liquid and applying a high voltage to the dielectric liquid containing said organic fibers dispersed to electrostatically align said organic fibers and to produce a fiber accumulation of unidirectionally-oriented organic fibers,

using the fiber accumulation as a mold and dipping the same in a ceramics base solution, and then

removing the mold by treatment with heat or an organic solvent.

2. The method for manufacturing hollow ceramics fibers unidirectionally-oriented according to Claim 1, wherein the organic fiber is one selected from the group of raw silk, cotton, hemp, nylon, polyester, acrylic, cellulose and chitin.

3. The method for manufacturing hollow ceramics fibers unidirectionally-oriented according to Claim 1, wherein the ceramics base solution is composed of an alkoxide or

chloride of titanium, aluminum, zirconium or silicon, and alcohol, and optional water, hydrochloric acid.

4. The method for manufacturing hollow ceramics fibers unidirectionally-oriented according to Claim 1, wherein the ceramics base solution is composed of polyethylene glycol, surfactants and organic polymers represented by block copolymer, in addition to an alkoxide or chloride of titanium, aluminum, zirconium or silicon, and alcohol, and optional water, hydrochloric acid.

5. The method for manufacturing hollow ceramics fibers unidirectionally-oriented according to Claim 1, wherein dipping is performed by the dip coating, dipping or spin coating method.

6. The method for manufacturing hollow ceramics fibers unidirectionally-oriented according to Claim 1, wherein the mold is removed by treatment with heat or an organic solvent.